

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/661,178
Filing Date	September 12, 2003
First Named Inventor	Fredric L. Abrams
Art Unit	
Examiner Name	
Attorney Docket Number	MTY 065 P2 CI3

Sheet 1 of

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
MC		US- D362,881	10-03-1995	SCHICKERT ET AL.	
		US- 1,743,299	01-14-1930	WIEMER	
		US- 1,944,464	01-23-1934	RICHARDSON	
		US- 2,386,966	10-16-1945	MACMILLEN	
		US- 2,683,895	07-20-1954	SCOFIELD	
		US- 2,799,047	07-16-1957	WIDIGER ET AL.	
		US- 2,877,501	03-17-1959	BRADT	
		US- 3,042,570	07-03-1962	BRADT	
		US- 3,078,513	02-26-1963	LEVISON ET AL.	
		US- 3,283,041	11-01-1966	SOMMERFIELD	
		US- 3,453,356	07-01-1969	KENT ET AL.	
		US- 3,499,186	03-10-1970	SASSA	
		US- 3,574,890	04-13-1971	GRESCH	
		US- 3,583,679	06-08-1971	GODLEY ET AL.	
		US- 3,632,254	01-04-1972	WOODHAM ET AL.	
MC		US- 3,632,256	01-04-1972	KASTING ET AL.	
		US- 3,728,056	04-17-1973	THEYSOHN	
		US- 3,728,986	04-24-1973	BROVOLL	
		US- 3,767,754	10-23-1973	MANNING ET AL.	

FOREIGN PATENT DOCUMENTS

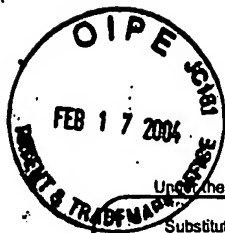
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
MC		GB 1449472	09-15-1976	Owens-Corning Fiberglass		
		CH 610235	12-04-1976	Toppan Printing Co., Ltd.		
		DE 3115306	04-15-1981	Yamakawa Industrial Co...		
		EP 0045501	02-10-1982	Union Carbide Corporation		
		DE 3327135	07-27-1983	Herbert Funck		
MC		JP 61181618	02-02-1983	Kurata Kinzoku Kogyo KK		

Examiner Signature		Date Considered	18/ Sep/05
--------------------	--	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/661,178
Filing Date	September 12, 2003
First Named Inventor	Fredric L. Abrams
Art Unit	
Examiner Name	
Attorney Docket Number	MTY 065 P2 CI3

Sheet 2 of **U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
ME		US- 3,959,209	05-25-1976	LAKE	
		US- 4,049,245	09-20-1977	TADMOR ET AL.	
		US- 4,071,494	01-31-1978	GAYLORD	
		US- 4,077,756	03-07-1978	MEADORS	
		US- 4,120,630	10-17-1978	LASPISA	
		US- 4,137,023	01-30-1979	MOKED ET AL.	
		US- 4,154,893	05-15-1979	GOLDMAN	
		US- 4,197,070	04-08-1980	KOSCHMANN	
		US- 4,212,543	07-15-1980	BERSANO	
		US- 4,267,285	05-12-1981	BROUTMAN	
		US- 4,312,917	01-26-1982	HAWLEY	
		US- 4,317,765	03-02-1982	GAYLORD	
		US- 4,393,020	07-12-1983	LI ET AL.	
		US- 4,402,902	09-06-1983	FALK ET AL.	
		US- 4,422,992	12-27-1983	MICHEL	
ME		US- 4,424,968	01-10-1984	SMITH	
		US- 4,430,059	02-07-1984	BIEFELDT	
		US- 4,443,175	04-17-1984	ROSE ET AL.	
		US- 4,500,595	02-19-1985	GERTEISEN ET AL.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
ME		CH 667842 A5	09-27-1985	Bucher-Guyer AG Machine...		
		FR 2564374	11-22-1985	Soclete GREPP		
		JP 60264219	12-27-1985	Mitsubishi Heavy Ind KK		
		JP 6123761	10-22-1986	Teiyou KK		
		DE 3705470	02-20-1987	Bucher-Guyer AG...		
ME		JP 62240515	10-21-1987	Akamatsu		

Examiner Signature	<u>ME</u>	Date Considered	<u>18/ Sep /05</u>
--------------------	-----------	-----------------	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/661,178
Filing Date	September 12, 2003
First Named Inventor	Fredric L. Abrams
Art Unit	
Examiner Name	
Attorney Docket Number	MTY 065 P2 C13

Sheet **3** of**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
MC		US- 4,505,661	03-19-1985	BIEFELDT	
		US- 4,537,737	08-27-1985	CROWE	
		US- 4,583,732	04-22-1986	ALLEN	
		US- 4,611,983	09-16-1986	BIELFELDT	
		US- 4,653,646	03-31-1987	ALLEN ET AL.	
		US- 4,663,103	05-05-1987	MCCULOUGH ET AL.	
		US- 4,721,589	01-26-1988	HARRIS	
		US- 4,738,808	04-19-1988	HAMMER ET AL.	
		US- 4,804,505	02-14-1989	VENZKE	
		US- 4,826,162	05-02-1989	ALLEN	
		US- 4,863,653	09-05-1989	TAKUBO ET AL.	
		US- 4,876,049	10-24-1989	AOYAMA ET AL.	
		US- 4,889,430	12-26-1989	MUELLER	
		US- 4,908,278	03-13-1990	BLAND ET AL.	
		US- 4,921,646	05-01-1990	STEWART	
		US- 4,925,381	05-15-1990	AOKI ET AL.	
		US- 4,937,028	06-26-1990	GLEMET ET AL.	
		US- 4,968,463	11-06-1990	LEVASSEUR	
MC		US- 5,000,900	03-19-1991	BAUMGARTNER	

FOREIGN PATENT DOCUMENTS

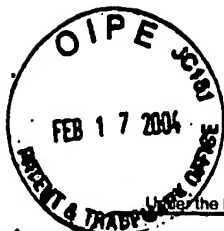
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
MC		EP 0285982	03-29-1988	Bayer AG		
		DE 3843342	12-22-1988	Stefan Biffar		
		RU 1646880	05-07-1991	Tatarkin V A		
		DE 4236662	10-30-1992	Frank Truckenmuller		
		EP 0541441	12-05-1993	Vetrotex France S.A.		
MC		DE 4211221	10-21-1993	Kobe Steele Ltd.		

Examiner Signature		Date Considered	18/ Sep /05
--------------------	--	-----------------	-------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/661,178
Filing Date	September 12, 2003
First Named Inventor	Fredric L. Abrams
Art Unit	
Examiner Name	
Attorney Docket Number	MTY 065 P2 C13

Sheet 4

of

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
MLO		US- 5,006,007	04-09-1991	FISCHER ET AL.	
		US- 5,088,910	02-18-1992	GOFORTH ET AL.	
		US- 5,091,436	02-25-1992	FRISCH ET AL.	
		US- 5,110,275	05-05-1992	SCHEURING	
		US- 5,165,941	11-24-1992	HAWLEY	
		US- 5,207,407	05-04-1993	FITZSIMMONS ET AL	
		US- 5,238,633	08-24-1993	JAMESON	
		US- 5,240,663	08-31-1993	STRINGARO ET AL.	
		US- 5,259,749	11-09-1993	MEIXNER ET AL.	
		US- 5,275,776	01-04-1994	HARA ET AL.	
		US- 5,280,666	01-25-1994	WOOD ET AL.	
		US- 5,292,118	03-08-1994	ALLEN ET AL.	
		US- 5,312,573	05-17-1994	ROSENBAUM ET AL.	
		US- 5,324,755	06-28-1994	KILIUS ET AL.	
		US- 5,344,299	09-06-1994	TAKEUCHI	
		US- 5,358,397	10-25-1994	LIGON ET AL.	
		US- 5,358,680	10-25-1994	BOISSONNAT ET AL.	
		US- 5,415,393	05-16-1995	FITZSIMMONS ET AL.	
MLO		US- 5,421,712	06-06-1995	LAING ET AL.	

FOREIGN PATENT DOCUMENTS

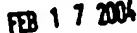
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
MLO		EP 0575855	12-29-1993	Leuna-Werke AG		
MLO		EP 0618060	10-05-1994	Hoeschst Aktiengesellschaft		

Examiner Signature		Date Considered	18/5-20/05
--------------------	---	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

(Use as many sheets as necessary)

Complete if Known

Application Number	10/661,178
Filing Date	September 12, 2003
First Named Inventor	Fredric L. Abrams
Art Unit	
Examiner Name	
Attorney Docket Number	MTY 065 P2 C13


Sheet	5	of
-------	---	----

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

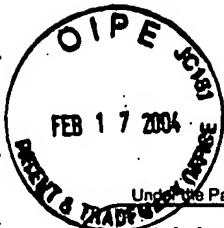
[illegible]

Examiner Signature		Date Considered	18/Sep/05
-----------------------	---	--------------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Complete if Known**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/661,178
Filing Date	September 12, 2003
First Named Inventor	FREDRIC L. ABRAMS
Art Unit	
Examiner Name	
Attorney Docket Number	MTY 065 P2 CI 3
Sheet 6 of 6	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MO		International Search Report dated February 14, 1996 (PTC/US95/03166)	
		REINHARD, DONALD L. "Can Glass Fiber Reinforced Polypropylene Composites Be Recycled?" SAE Technical Paper Series, No. 920855, Feb. 24 - 28, 1992, Adzel, Inc. The Engineering Society for Advancing Mobility Land Sea Air and Space. Detroit, MI.	
		Miscellaneous Machine Drawings dated 01-17-1989 and 04-18-1989 re: RPM 60/100 manufactured by Rose Plastic and Machinery, Inc. showing a plasticator and deep flight screw (left hand).	
MO		"The Art of Large Parts." Feb. 1993. Publication No. TPS-350. Azdel Thermoplastic Composites, Azdel, Inc.	

Examiner Signature		Date Considered	12/5/03
--------------------	--	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.